

**IN THE CLAIMS:**

1. (Currently Amended) ~~Dise~~Disk prosthesis for cervical vertebrae comprising:
  - a first (2) and a second plate (3) intended to be fixed on neighboring cervical vertebrae, and
  - a means of articulation (7) inserted between the two plates placed in superimposed position, characterized in that the means of articulation (7) further comprises:
    - a means authorizing flexion-extension movements in a sagittal plane (S) according to an angular clearance limited by a means of stop in flexion-extension (9),
    - a means authorizing lateral inflexion movements in a plane perpendicular to the sagittal plane (S) according to an angular clearance limited by a means of stop in lateral inflexion (12),
    - a means authorizing relative rotation movements between the first (2) and second (3) plates according to an angular clearance limited by a means of stop in relative rotation,
    - a means for assembling (17) the first (2) and second (3) plates so as to form a prosthesis consisting of a single piece.
2. (Currently Amended) ~~Dise~~Disk prosthesis according to claim 1, characterized in that the means of articulation (7) comprises:
  - a hole (20) with a partially spherical profile established inside a chamber (21) prepared in the second plate,
  - and a bearing surface (23) with a profile complementary to the hole (20) formed in the **[[the]]** first plate and assembled in the hole (20) to be locked in the latter.
3. (Previously presented) Disk prosthesis according to claim 1, characterized in that the means authorizing flexion-extension movements comprises an axis (31) that extends in the sagittal plane (S) by protruding on both sides of a bearing surface formed in the first plate, and in clearances (32) prepared in the second plate by openings in a spherical hole of the second plate.

4. (Original) Disk prosthesis according to claim 3, characterized in that the clearances (32) have a determined diameter to enable definition of the angular clearance of the relative rotation movements between the first and second plates.

5. (Original) Disk prosthesis according to claim 1, characterized in that the means of stop in relative rotation are formed by a female geometric shape (40) cooperating with a complementary male geometric shape (41), one of the geometric shapes being prepared on the first plate while the second geometric shape is prepared on the second plate.

6. (Previously Presented) Disk prosthesis according to claim 1, characterized in that the means of stop in lateral inflexion (12) are formed by a profile of the plates coming into contact with each other.

7. (Currently Amended) ~~Prosthesis~~Disk prosthesis according to claim 2, characterized in that the bearing surface (23) is prepared in a first insert (25) assembled on the first plate (2) and made in the shape of a stub and that the hole (20) is prepared in a second insert (26) assembled on the second plate (3) and made in the shape of a ring.

8. (Original) Disk prosthesis according to claim 7, characterized in that the inserts (25, 26) are made of ceramic or metal.

9. Canceled.

10. (Original) Disk prosthesis according to claim 2, characterized in that the means authorizing flexion-extension movements comprises an axis (31) that extends in the sagittal plane (S) by protruding on both sides of a bearing surface formed in the first plate, and in clearances (32) prepared in the second plate by openings in a spherical hole of the second plate.